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MORGAN L. FITCH,
FRANCIS A. EVEN*
JULIUS TABIN
JOHN F. FLANNERY
ROBERT B. JONES
JAMES J. SCHUMANN
JAMES J. HAMILL
TIMOTHY E. LEVSTIK
JOSEPH E. SHIPLEY
KENNETH H. SAMPLES
PHILIP T. PETTI
JOSEPH T. NABOR
STEVEN C. SCHROER
RICHARD A. KABA*
KARL R. FINK
MARK W. HETZLER
TIMOTHY P. MALONEY
JAMES P. KRUEGER
STEPHEN S. FAVAKEH
RICHARD E. WAWRZYNIAK
STEVEN G. PARMELEE
THOMAS F. LEBENS
BRUCE R. MANSFIELD
KENDREW H. COLTON*
G. PAUL EDGELL*
MICHAEL A. SANZO*
SCOTT A. MENGHINI
NORMAN N. KUNITZ*
RUDY KRATZ
RAMON R. HOCH*

FITCH, EVEN, TABIN & FLANNERY

ATTORNEYS AND COUNSELLORS AT LAW

Established in 1859

SUITE 401L - 1801 K STREET, NW
WASHINGTON, D.C. 20006-1201

TELEPHONE (202) 419-7000
FACSIMILE (202) 419-7007

ILLINOIS OFFICE

SUITE 1600 - 120 SOUTH LA SALLE STREET, CHICAGO, ILLINOIS 60603-3406
TELEPHONE (312) 577-7000

CALIFORNIA OFFICE

SUITE 250 - 9276 SCRANTON ROAD, SAN DIEGO, CA 92121-7708
TELEPHONE (858) 552-1311

COLORADO OFFICE

SUITE 213 - 1942 BROADWAY, BOULDER, COLORADO 80302
TELEPHONE (303) 402-6966

November 18, 2004

EDWARD E. CLAIR
JON A. BIRMINGHAM
JOHN E. LYHUS
STEVEN M. FREELAND
DONNA E. BECKER
MICHAEL G. VRANICAR
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DAVID R. JAGLOWSKI
TIMOTHY R. BAUMANN
JEFFREY A. CHELSTROM
NICHOLAS T. PETERS
KENNETH A. PLOCHINSKI
MEGAN J. REDMOND

PATENT AGENTS

ERIC J. WHITESSELL
LILIA I. SAFONOV

OF COUNSEL

GEORGE W. SPELLMIRE, JR.
LISA M. SOMMER
GEORGE H. SPENCER, P.C.*

TECHNICAL ADVISOR

JOHN M. BRONK, Ph.D.

*ADMITTED TO D.C. BAR; D.C. PRACTICE OF
ALL OTHERS LIMITED TO FEDERAL COURTS
AND AGENCIES

Commissioner of Patents
U.S. Patent and Trademark Office
220 20th Street South
Customer Window, **MS Amendment**
Crystal Plaza Two, Lobby, Room 1B03
Arlington, VA 22202

Re: Information Disclosure Statement
Appl. No.: 10/812,315
Filed: March 30, 2004
Title: **Process for the Production of
L-Amino Acids Using Strains of the
Enterobacteriaceae Family**
Inventor(s): Rieping, Mechthild
Atty. Dkt.: 7909/81000

Dear Sir:

The following documents are being submitted for appropriate action by the U.S. Patent and Trademark Office:

1. Information Disclosure Statement;
2. PTO Form 1449, List of References Cited by Applicant;
3. References B1-B40 and C1-C74; and
4. Return postcard.

**Applicant does not believe that any fees are due for the filing of these documents.
However, the Director is hereby authorized to charge any fee deficiency with respect to this**

Commissioner for Patents
November 18, 2004
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filing and any other fee required in connection with the present case, or credit any overpayment to our Deposit Account No. 06-1135 under Order No. 7909/81000.

It is respectfully requested that the enclosed postcard be stamped with the date the enclosed documents are received by the PTO and that it be returned as soon as possible.

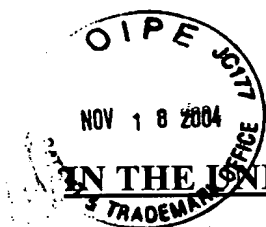
Very truly yours,

FITCH, EVEN, TABIN & FLANNERY

A handwritten signature in black ink that reads "Michael A. Sanzo". The signature is written in a cursive, flowing style.

Michael A. Sanzo
Reg. No. 36,912
Attorney for Applicant

MAS:ct
Enclosures



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of:

Rieping, Mechthild

Appl. No.: 10/812,315

Filed: March 30, 2004

For: **Process for the Production of
L-Amino Acids Using Strains of the
Enterobacteriaceae Family**

Art Unit: to be assigned

Examiner: to be assigned

Atty. Dkt.: 7909/81000

Information Disclosure Statement

Commissioner of Patents
U.S. Patent and Trademark Office
220 20th Street South
Customer Window, **MS Amendment**
Crystal Plaza Two, Lobby, Room 1B03
Arlington, VA 22202

Sir:

Submitted herewith is a listing of documents known to Applicant and/or his attorney in compliance with the requirements of 37 C.F.R. § 1.56. Some of these references were cited in the International Search Report for counterpart international application PCT/EP2004/002796 dated August 6, 2004, a copy of which is enclosed. Copies of the listed documents, with the exception of the United States patent(s), are also enclosed.

Applicant also wishes to make the Examiner aware of co-pending applications 10/733,776, filed December 12, 2003; 10/784,902, filed February 24, 2004; 10/784,914, filed February 24, 2004; 10/794,417, filed March 8, 2004; and 10/817,431, filed April 5, 2004.

In accordance with 37 C.F.R. § 1.98(a)(3), Applicant's undersigned attorney submits the following concise explanation of the relevance of the non-English language document cited on the accompanying form:

Reference B1, PCT published application WO 99/18228, describes a method for increasing the microbial production of specific amino acids by increasing the activity or expression of pyruvate carboxylase. An English language abstract corresponding to this document is enclosed herewith and is cited on the accompanying list of references as document C71.

Reference B3, PCT published application WO 01/05939 A1, describes a process for the production of L-amino acids, *e.g.*, L-lysine and L-glutamic acid, by culturing a microorganism having variation or deletion of sigma factor which acts specifically on the stationary phase. An English language abstract corresponding to this document is enclosed herewith and is cited on the accompanying list of references as document C72.

Reference B39, German patent DE 101 32 946 A1, describes a process for the fermentative production of L-amino acids by culturing Enterobacteriaceae in which the activity of at least one specific gene is increased. The process is useful in producing threonine and other amino acids for use in animal nutrition, medicine and the food industry. An English language abstract corresponding to this document is enclosed herewith and is cited on the accompanying list of references as document C73.

Reference B40, German patent DE 101 35 053 A1, describes a process for preparing L-amino acids, *e.g.*, L-threonine, by fermenting an organism of the Enterobacteriaceae family in which at least the *malE* gene is enhanced, particularly overexpressed, and then isolating the desired amino acid. An English language abstract corresponding to this document is enclosed herewith and is cited on the accompanying list of references as document C74.

Applicant does not waive any rights to appropriate action to establish patentability over any of the listed documents should they be applied as references against the claims of the present application. This statement should not be construed as a representation that more material information does not exist or that an exhaustive search of the relevant art has been made.

Consideration of the cited documents and making the same of record in the prosecution of the above-captioned application are respectfully requested.

Applicant does not believe any fees are due for the submission of this Information Disclosure Statement other than those which have been provided. However, the Director is hereby authorized to charge any fee deficiency to our Deposit Account No. 06-1135 under Order No. 7909/81000.

Respectfully submitted,

FITCH, EVEN, TABIN & FLANNERY

By *Michael A. Sanzo*
Michael A. Sanzo
Reg. No. 36,912
Attorney for Applicant

Date *November 17*, 2004
1801 K Street, N.W., Suite 401L
Washington, DC 20006-1201
Telephone: (202) 419-7000

LIST OF REFERENCES CITED BY APPLICANT <i>(Use several sheets if necessary)</i>				Atty. Docket No.: 7909/81000		Appl. No.: 10/812,315	
				Applicant(s) Rieping, Mechthild			
				Filing Date: March 30, 2004		Group: to be assigned	
U.S. PATENT DOCUMENTS							
Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	A 1	4,278,765	Jul. 14, 1981	Debabov, <i>et al.</i>	435	172	Jun. 28, 1979
	A 2						
	A 3						
	A 4						
	A 5						
	A 6						
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Examiner Initial		Document Number	Date	Country	Class	Subclass	Abst./Trans.	
							Yes	No
	B 1	WO 99/18228	Apr. 15, 1999	WIPO	C12P	13/00	X	
	B 2	WO 99/53035	Oct. 21, 1999	WIPO	C12N	9/00		
	B 3	WO 01/05939 A1	Jan. 25, 2001	WIPO	C12N	1/21	X	
	B 4	WO 01/92545 A1	Dec. 6, 2001	WIPO	C12N	15/70		
	B 5	WO 02/06459 A1	Jan. 24, 2002	WIPO	C12N	9/02		
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	B 7	WO 02/36797 A2	May 10, 2002	WIPO	C12P	13/00		
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							Yes	No
	B 28	WO 03/008610 A2	Jan. 30, 2003	WIPO	C12P	13/00		
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	B 30	WO 03/008613 A2	Jan. 30, 2003	WIPO	C12P	13/00		
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	B 32	WO 03/008615 A2	Jan. 30, 2003	WIPO	C12P	13/00		
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	B 40	DE 101 35 053 A1	Jul. 18, 2001	Germany	C12P	13/04	X	
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		Filing Date: March 30, 2004	Group: to be assigned
Examiner Initial _____ OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)			
	C 1	ANDREWS, <i>et al.</i> , "Cloning, Sequencing, and Mapping of the Bacterioferritin Gene (<i>bfr</i>) of <i>Escherichia coli</i> K-12," <i>J. Bacteriol.</i> 171:3940-3947 (1989).	
	C 2	BLANKENHORN, <i>et al.</i> , "Acid- and Base-Induced Proteins during Aerobic and Anaerobic Growth of <i>Escherichia coli</i> Revealed by Two-Dimensional Gel Electrophoresis," <i>J. Bacteriol.</i> 181:2209-2216 (1999).	
	C 3	BLATTNER, <i>et al.</i> , "The Complete Genome Sequence of <i>Escherichia coli</i> K-12," <i>Science</i> 277:1453-1462 (1997).	
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	C 6	CARRIER, <i>et al.</i> , "Library of Synthetic 5' Secondary Structures to Manipulate mRNA Stability in <i>Escherichia coli</i> ," <i>Biotechnol. Prog.</i> 15:58-64 (1999).	
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	C 13	FRANCH, <i>et al.</i> , "U-Turns and Regulatory RNAs," <i>Curr. Opin. Microbiol.</i> 3:159-164 (2000).	
	C 14	GARRIDO-PERTIERRA, "Isolation and Properties of <i>Salmonella typhimurium</i> Mutants Defective in Enolase," <i>Revista Española de Fisiología</i> 36:33-40 (1980).	
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	C 19	JENSEN, <i>et al.</i> , "Artificial Promoters for Metabolic Optimization," <i>Biotechnol. Bioeng.</i> 58:191-195 (1998).	
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		Filing Date: March 30, 2004	Group: to be assigned
Examiner Initial OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)			
	C 20	KAGA, <i>et al.</i> , "Rnase G-Dependent Degradation of the <i>eno</i> mRNA Encoding a Glycolysis Enzyme Enolase in <i>Escherichia coli</i> ," <i>Biosci. Biotechnol. Biochem.</i> 66:2216-2220 (2002).	
	C 21	KIRKPATRICK, <i>et al.</i> , "Acetate and Formate Stress: Opposite Responses in the Proteome of <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> 183:6466-6477 (2001).	
	C 22	KLEIN, <i>et al.</i> , "Cloning, Nucleotide Sequence, and Functional Expression of the <i>Escherichia coli</i> Enolase (<i>eno</i>) Gene in a Temperature-Sensitive <i>eno</i> Mutant Strain," <i>J. Seq. Mapping</i> 6:351-355 (1996).	
	C 23	KNAPPE, <i>et al.</i> , "A Radical-Chemical Route to Acetyl-CoA: The Anaerobically Induced Pyruvate Formate-Lyase System of <i>Escherichia coli</i> ," <i>FEMS Microbiol. Rev.</i> 75:383-398 (1990).	
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	C 25	LANDGRAF, <i>et al.</i> , "The Role of H-NS in One Carbon Metabolism," <i>Biochimie</i> 76:1063-1070 (1994).	
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	C 29	MASUDA, <i>et al.</i> , "Improvement of Nitrogen Supply for L-Threonine Production by a Recombinant Strain of <i>Serratia marcescens</i> ," <i>Appl. Biochem. Biotechnol.</i> 37:255-265 (1992).	
	C 30	McPHERSON, <i>et al.</i> , "Complete Nucleotide Sequence of the <i>Escherichia coli</i> <i>gdhA</i> Gene," <i>Nucleic Acids Res.</i> 11:5257-5267 (1983).	
	C 31	MEYER, <i>et al.</i> , "Molecular Characterization of Glucokinase from <i>Escherichia coli</i> K-12," <i>J. Bacteriol.</i> 179:1298-1306 (1997).	
	C 32	MISSIAKAS, <i>et al.</i> , "Modulation of the <i>Escherichia coli</i> σ^E (RpoE) Heat-Shock Transcription-Factor Activity by the RseA, RseB and RseC Proteins," <i>Mol. Microbiol.</i> 24:355-371 (1997).	
	C 33	NAGELKERKE, <i>et al.</i> , "2-Deoxygalactose, a Specific Substrate of the <i>Salmonella typhimurium</i> Galactose Permease: Its Use for the Isolation of <i>galP</i> Mutants," <i>J. Bacteriol.</i> 133:607-613 (1978).	
	C 34	NIERSBACH, <i>et al.</i> , "Cloning and Nucleotide Sequence of the <i>Escherichia coli</i> K-12 <i>ppsA</i> Gene, Encoding PEP Synthase," <i>Mol. Gen. Genet.</i> 231:332-336 (1992).	
	C 35	PARSONS, <i>et al.</i> , "Solution Structure and Functional Ligand Screening of HI0719, a Highly Conserved Protein from Bacteria to Humans in the YjgF/YER057c/UK114 Family," <i>Biochemistry</i> 42:80-89 (2003).	
	C 36	POSTMA, "Galactose Transport in <i>Salmonella typhimurium</i> ," <i>J. Bacteriol.</i> 129:630-639 (1977).	
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Examiner		Date Considered	

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		Filing Date: March 30, 2004	Group: to be assigned
Examiner Initial			
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)			
	C 39	RAIBAUD, <i>et al.</i> , "Essential and Nonessential Sequences in <i>malPp</i> , a Positively Controlled Promoter in <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> 161:1201-1208 (1985).	
	C 40	RAVNIKAR, <i>et al.</i> , "Structural and Functional Analysis of a Cloned Segment of <i>Escherichia coli</i> DNA That Specifies Proteins of a C ₄ Pathway of Serine Biosynthesis," <i>J. Bacteriol.</i> 169:4716-4721 (1987).	
	C 41	REYES, <i>et al.</i> , "Overproduction of MalK Protein Prevents Expression of the <i>Escherichia coli</i> <i>mal</i> Regulon," <i>J. Bacteriol.</i> 170:4598-4602 (1988).	
	C 42	RICHET, <i>et al.</i> , "MalT, the Regulatory Protein of the <i>Escherichia coli</i> Maltose System, Is an ATP-Dependent Transcriptional Activator," <i>EMBO J.</i> 8:981-987 (1989).	
	C 43	RÖDEL, <i>et al.</i> , "Primary Structures of <i>Escherichia coli</i> Pyruvate Formate-Lyase and Pyruvate-Formate-Lyase-Activating Enzyme Deduced from the DNA Nucleotide Sequences," <i>Eur. J. Biochem.</i> 177:153-158 (1988).	
	C 44	ROMEO, <i>et al.</i> , "Identification and Molecular Characterization of <i>csrA</i> , a Pleiotropic Gene from <i>Escherichia coli</i> That Affects Glycogen Biosynthesis, Gluconeogenesis, Cell Size, and Surface Properties," <i>J. Bacteriol.</i> 175:4744-4755 (1993).	
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